EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S93	181871	(program or code) near (generat$4 or creat$4 or implement$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:47
S94	3947	(xml or "extensible markup language") and (xsl or (extensible adj (stylesheet or "style sheet" or style) adj language))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:47
S95	1176	S94 and S93	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:47
S96	685	S95 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:47
S97	73320	(ibm or "international business machines").as.	US-PGPUB; USPAT	OR	ON	2007/11/30 12:47
S98	33	S97 and ((software or program or firmware or driver) and web and node and object).clm.	US-PGPUB; USPAT	OR	ON	2007/11/30 12:47
S99	8	S97 and ((software or program or firmware or driver) and description and web and node and object).clm.	US-PGPUB; USPAT	OR	ON	2007/11/30 12:47
S100	3947	(xml or "extensible markup language") and (xsl or (extensible adj (stylesheet or "style sheet" or style) adj language))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:47
S101	2329	S100 and (object with (generat$4 or creat$4 or implement$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:47

EAST Search History

S102	536	S101 and ((web adj service) or websphere)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S103	221	S102 and ("object-oriented" or "object oriented" or oo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S104	144	S103 and (node or grid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S105	4	("5596746" "5893912").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S106	3947	(xml or "extensible markup language") and (xsl or (extensible adj (stylesheet or "style sheet" or style) adj language))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S107	181871	(program or code) near (generat$4 or creat$4 or implement$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S108	1176	S106 and S107	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S109	345	S108 and ((web adj service) or websphere)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48

EAST Search History

S110	209	S109 and (node or grid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S111	162	S110 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S112	90	S111 and ("object-oriented" or "object oriented" or oo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S113	11703	automatic$4 with code with (creat$4 or generat$4 or deploy$4 or implement$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S114	3706	oml or "object meta language"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S115	4	S113 and S114	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S116	79	S104 and (@pd<"20031211" or @ad<"20031211" or @prad<"20031211" or @rlad<"20031211")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S117	2	"20040015832".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48

EAST Search History

S118	269	S96 and ((web adj service) or websphere)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S119	125	S118 and ("object-oriented" or "object oriented" or oo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S120	57	S119 and (@pd<"20031211" or @ad<"20031211" or @prad<"20031211" or @rlad<"20031211")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S121	2	"6636845".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S122	224	S113 and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S123	106	S122 and ((web adj service) or websphere)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S124	555	717/108.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S125	648	717/106.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48

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S126	2	"20040015832".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S127	8	keith near purcell.in.	US-PGPUB; USPAT	OR	ON	2007/11/30 12:48
S128	2	S97 and ((software or program or firmware or driver) and description and web and node and grid and object).clm.	US-PGPUB; USPAT	OR	ON	2007/11/30 12:48
S129	98	("6286033" "6598219" "6446256" "6745208" "6986121" "6330569" "6823495" "6083276" "6886169" "6799299" "6453329" "6569207" "6928640" "5991538" "6085196" "5388258" "5542086" "5572727" "5583983" "5638504" "5313636" "5809505" "6208994" "6230213" "5586236" "6253205" "6282702" "7043481" "6644322" "6463440" "6981212" "6578192" "6915304" "5339438" "5699310" "5822587" "5978582" "5642511" "5710896" "5761493" "5764958" "5802367" "5826077" "5862328" "5878411" "5956730" "5956725" "6038395" "6076090" "5764241").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S130	31	S123 and ("object-oriented" or "object oriented" or oo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S131	7	S130 and (@pd<"20031211" or @ad<"20031211" or @prad<"20031211" or @rlad<"20031211")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S132	34	S112 and (@pd<"20031211" or @ad<"20031211" or @prad<"20031211" or @rlad<"20031211")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48

EAST Search History

S133	3	"7017148".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S134	4	("20020035621" | "20020112058" | "6549943" | "6789077").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/30 12:48
S135	2	"7130891".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S136	4	("20040044718"|"20050021594"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S137	12	("20010027484"|"20020032765"|"20020035593"|"20020046239"|"6148337"|"6182224").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S138	2	"20040139144" .pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S139	648	717/106.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S140	555	717/108.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48
S141	62	(S140 or S139) and @pd>="20070122" and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48

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S142	9	("20010027484"|"20020032765"|"20020035593"|"20020046239"|"20040044718"|"20050021594"|"6148337"|"6182224"|"7185046").PN.	US-PGPUB; USPAT	OR	ON	2007/11/30 13:08
S143	82	(computation$3 near grid) with computer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 13:24
S144	15	S143 and xml	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 13:22
S145	1233	grid adj computing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 13:32
S146	4	S145 and xml and xsl	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 13:32
S147	271	S145 and (web adj service)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 13:32
S148	74	S147 and (object$1oriented)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 13:33
S149	7	("20030014524" | "20030233602" | "20040003077" | "6182139" | "6865601" | "6928477" | "6965930").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/30 13:38
S150	1742	717/106-109.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 14:57

EAST Search History

S151	11391	709/201-203.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 14:57
S152	89	(S150 or S151) and (grid near comput$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 14:58

Terms used: **grid computing** Found **132,093** of **215,481**

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1 Grid computing: a STOPE view

Mohammad Amer Arafah, Hazza S. Al-Harbi, Saad Haj Bakry

July 2007 **International Journal of Network Management**, Volume 17 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(198.42 KB) Additional Information: full citation, abstract, references, index terms

Grid computing is emerging as the foundation upon which virtual organizations can be built. Such organizations are becoming of increasing importance for tackling various projects, both in academic and in business fields. This paper is concerned with presenting an integrated view of the grid to readers interested in understanding it, or perhaps in developing it further or making use of it in the future. The target view is based on the STOPE (strategy/technology/organization/people/environment) ...

2 Challenges: Challenge: integrating mobile wireless devices into the computational grid

Thomas Phan, Lloyd Huang, Chris Dulan

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

Publisher: ACM Press

Full text available: pdf(204.77 KB) Additional Information: full citation, abstract, references, cited by, index terms

One application domain the mobile computing community has not yet entered is that of grid computing -- the aggregation of network-connected computers to form a large-scale, distributed system used to tackle complex scientific or commercial problems. In this paper we present the challenge of harvesting the increasingly widespread availability of Internet connected wireless mobile devices such as PDAs and laptops to be beneficially used within the emerging national and global computational grid. T ...

Keywords: economic model, grid computing, mobile wireless computing, network clusters, pervasive computing

3 Special section on grid computing: Benchmarks for grid computing: a review of ongoing efforts and future directions

Allan Snavely, Greg Chun, Henri Casanova, Rob F. Van der Wijngaart, Michael A. Frumkin

March 2003 **ACM SIGMETRICS Performance Evaluation Review**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(600.22 KB) Additional Information: full citation, abstract, references, index terms

Grid architectures are collections of computational and data storage resources linked by communication channels for shared use. It is important to deploy measurement methods

so that Grid applications and architectures can evolve guided by scientific principles. Engineering pursuits need agreed upon metrics---a common language for communicating results, so that alternative implementations can be compared quantitatively. Users of systems need performance parameters that describe system capabilitie ...

Keywords: benchmarks, grid computing

4 Technical columns: Distributed computing research issues in grid computing

Henri Casanova
September 2002 **ACM SIGACT News**, Volume 33 Issue 3
Publisher: ACM Press
Full text available: pdf(1.99 MB) Additional Information: full citation, abstract, references, citings

Ensembles of distributed, heterogeneous resources, or *Computational Grids,* have emerged as popular platforms for deploying large-scale and resource-intensive applications. Large collaborative efforts are currently underway to provide the necessary software infrastructure. *Grid computing* raises challenging issues in many areas of computer science, and especially in the area of *distributed computing,* as Computational Grids cover increasingly large networks and span many organi ...

5 Running EveryWare on the computational grid

Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**
Publisher: ACM Press
Full text available: pdf(414.73 KB) Additional Information: full citation, references, citings, index terms

6 Building computational grids with apple's Xgrid middleware

Baden Hughes
January 2006 **Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54 ACSW Frontiers '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(246.93 KB) Additional Information: full citation, abstract, references, index terms

Apple's release of the Xgrid framework for distributed computing introduces a new technology solution for loosely coupled distributed computation. In this paper systematically describe, compare and evaluate the Apple native Xgrid solution and a range of third party components which can be substituted for the native versions. This description and evaluation is grounded in practical experience of deploying a small scale, internationally distributed, heterogenous computational infrastructure based ...

Keywords: Xgrid, apple, computational grid, middleware

7 An agent-based peer-to-peer grid computing architecture: convergence of grid and peer-to-peer computing

Jia Tang, Minjie Zhang
January 2006 **Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54 ACSW Frontiers '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(377.74 KB) Additional Information: full citation, abstract, references, index terms

The conventional computing Grid has developed a service oriented computing architecture with a super-localresource management and scheduling strategy. This architecture is limited in modeling computer systems with highly dynamic and autonomous computing resources due to its server-based computing model. The super-local resource management and scheduling strategy also limits the utilization of the computing resources. In this paper, we propose a multi-agent based Peer-to-Peer Grid computing

archi ...

Keywords: grid computing, multi agent systems, peer-to-peer Computing, resource management, scheduling

8 Agents, interactions, mobility, and systems (AIMS): Forming resource-sharing coalitions: a distributed resource allocation mechanism for self-interested agents in computational grids

Linli He, Thomas R. Ioerger
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(116.95 KB) Additional Information: full citation, abstract, references, index terms

Designing efficient resource allocation mechanism for computational grids is extremely challenging because the effective agents in computational grids are inherently self-interested due to their different ownerships. Providing incentive for agents to share their resource with others is the key to make computational grids realistic. The global efficiency should be generated through the interactions among agents from the bottom up. In game theory, forming coalition is such a cooperative game among ...

Keywords: coalition formation, computational grids, self-interested agent

9 Job Superscheduler Architecture and Performance in Computational Grid Environments

Hongzhang Shan, Leonid Oliker, Rupak Biswas
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**
Publisher: IEEE Computer Society
Full text available: pdf(183.41 KB) Additional Information: full citation, abstract, citings

Computational grids hold great promise in utilizing geographically separated heterogeneous resources to solve large-scale complex scientific problems. However, a number of major technical hurdles, including distributed resource management and effective job scheduling, stand in the way of realizing these gains. In this paper, we propose a novel grid superscheduler architecture and three distributed job migration algorithms. We also model the critical interaction between the superscheduler and aut ...

10 Visualization in Grid Computing Environments

Ken Brodlie, David Duce, Julian Gallop, Musbah Sagar, Jeremy Walton, Jason Wood
October 2004 **Proceedings of the conference on Visualization '04 VIS '04**
Publisher: IEEE Computer Society
Full text available: pdf(350.92 KB) Additional Information: full citation, abstract, citings

Grid computing provides a challenge for visualization system designers. In this research, we evolve the dataflow concept to allow parts of the visualization process to be executed remotely in a secure and seamless manner. We see dataflow at three levels: an abstract specification of the intent of the visualization; a binding of these abstract modules to a specific software system; and then a binding of software to processing and other resources. We develop an XML application capable of describin ...

Keywords: grid computing, visualization systems, XML, computational steering, visualization reference models

11 CoG kits: a bridge between commodity distributed computing and high-performance grids

Gregor von Laszewski, Ian Foster, Jarek Gawor
June 2000 **Proceedings of the ACM 2000 conference on Java Grande JAVA '00**

Publisher: ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

12 A security architecture for computational grids
Ian Foster, Carl Kesselman, Gene Tsudik, Steven Tuecke
November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

13 Applications and compliance: Daonity: grid security with behaviour conformity from trusted computing
Wenbo Mao, Fei Yan, Chunrun Chen
November 2006 **Proceedings of the first ACM workshop on Scalable trusted computing STC '06**
Publisher: ACM Press
Full text available: pdf(89.43 KB) Additional Information: full citation, abstract, references, index terms

A central security requirement for grid computing can be referred to as behaviour conformity. This is an assurance that ad hoc related principals (users, platforms or instruments) forming a grid virtual organisation (VO) must each act in conformity with the rules for the VO constitution. Existing grid security practice has little means to enforce behaviour conformity and consequently falls short of satisfactory solutions to a number of problems.Trusted Computing (TC) technology can add to grid c ...

14 The implementation of the BSP parallel computing model on the InteGrade Grid middleware
Andrei Goldchleger, Alfredo Goldman, Ulisses Hayashida, Fabio Kon
November 2005 **Proceedings of the 3rd international workshop on Middleware for grid computing MGC '05**
Publisher: ACM Press
Full text available: pdf(308.77 KB) Additional Information: full citation, abstract, references, index terms

InteGrade is an object-oriented grid middleware infrastructure whose goal is to leverage existing computational resources in organizations. Rather than relying on dedicated hardware such as reserved clusters, InteGrade focuses on using desktops in users' offices, machines in computer laboratories, shared workstations, as well as dedicated clusters. In this paper, we describe the support for the execution of highly coupled parallel applications on top of InteGrade. The paper describes the impleme ...

Keywords: BSP, Parallel Computing Library, grid computing, parallel computing

15 General parallel computations on desktop grid and P2P systems
James C. Browne, Madulika Yalamanchi, Kevin Kane, Karthikeyan Sankaralingam
October 2004 **Proceedings of the 7th workshop on Workshop on languages, compilers, and run-time support for scalable systems LCR '04**
Publisher: ACM Press
Full text available: pdf(270.22 KB) Additional Information: full citation, abstract, references, citings

This paper defines the requirements for effective execution of iterative computations requiring communication on a desktop grid. It then proposes a combination of a p2p communication model, an algorithmic approach (asynchronous iterations) and a programming model which has promise for satisfying those requirements. Experimental results from an implementation of asynchronous algorithms in pure p2p system will be given. The integration of the p2p communication model with a commercially supported

i ...

16 A tool for the design and evaluation of hybrid scheduling algorithms for computational grids

B. A. Vianna, A. A. Fonseca, N. T. Moura, L. T. Menezes, H. A. Mendes, J. A. Silva, C. Boeres, V. E. F. Rebello

October 2004 **Proceedings of the 2nd workshop on Middleware for grid computing MGC '04**

Publisher: ACM Press

Full text available: pdf(333.16 KB) Additional Information: full citation, abstract, references, index terms

One of the objectives of computational grids is to offer applications the collective computational power of distributed but typically shared heterogeneous resources. Unfortunately, efficiently harnessing the performance potential of such systems (i.e. how and where applications should execute on the grid) is a challenging endeavor due principally to the distributed, shared and heterogeneous nature of the resources involved. This paper presents a tool to aid the design and evaluation of schedu ...

Keywords: grid computing, performance tool, task scheduling

17 Advances in spatial and image-based information systems (ASIIS): TerraCost: a versatile and scalable approach to computing least-cost-path surfaces for massive grid-based terrains

Tom Hazel, Laura Toma, Jan Vahrenhold, Rajiv Wickremesinghe

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available: pdf(176.63 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the problem of computing least-cost-path surfaces for massive grid-based terrains. Our approach follows a modular design, enabling the algorithm to make efficient use of memory, disk, and grid computing environments. We have implemented the algorithm in the context of the GRASS open source GIS system and---using our cluster management tool---in a distributed environment. We report experimental results demonstrating that the algorithm is not only of theoretical and conceptual ...

18 Extensible job managers for grid computing

Paul D. Coddington, Lici Lu, Darren Webb, Andrew L. Wendelborn

February 2003 **Proceedings of the 26th Australasian computer science conference - Volume 16 ACSC '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(293.64 KB) Additional Information: full citation, abstract, references, index terms

Grid computing is becoming an important framework for enabling applications to utilize widely distributed collections of computational and data resources, however current grid software is still immature and rather difficult to use. The Globus Grid Toolkit is a set of low-level tools, protocols and services that has become a defacto standard for basic grid computing infrastructure. The Globus Resource Allocation and Management (GRAM) service provides for the management and remote execution of job ...

Keywords: Java, cluster management systems, grid computing

19 QMView and GAMESS: integration into the world wide computational grid

Kim K. Baldridge, Jerry P. Greenberg, Stephen T. Elbert, Stephen Mock, Philip Papadopoulos

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available: pdf(650.61 KB) Additional Information: full citation, abstract, references, index terms

High performance computing, storage, visualization, and database infrastructures are increasing geometrically in complexity as scientists move towards grid-based computing. While this is natural, it has the effect of pushing computational capabilities beyond the reach of scientists because of the time needed to harness the infrastructure. Hiding the complexity of networked resources becomes essential if scientists are to utilize them effectively. In this work, we describe our efforts to integrat ...

20 Grid computing in Europe: from research to deployment

Rüdiger Berlich, Marcel Kunze, Kilian Schwarz

January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(315.92 KB) Additional Information: full citation, abstract, references, index terms

Grid Computing has, over the past few years, matured sufficiently to make it a viable solution for real-world problems. However, there are many different toolkits today that allow to build a Grid environment. And while this wealth of different solutions may offer techniques applicable to the widest possible range of computational problems, their very availability directly contradicts the inherent promise of the "World Wide Grid" to offer a compatible and standardised infrastructure. The European ...

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